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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12P 21/02, C12N 15/19, C07K 14/505	A1	(11) International Publication Number: WO 00/28066 (43) International Publication Date: 18 May 2000 (18.05.00)
(21) International Application Number: PCT/US99/26238		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 8 November 1999 (08.11.99)		
(30) Priority Data: P98 01 05609 ✓ 6 November 1998 (06.11.98) AR P99 01 00679 ✓ 23 February 1999 (23.02.99) AR		
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(54) Title: HOST CELLS EXPRESSING RECOMBINANT HUMAN ERYTHROPOIETIN

(57) Abstract

The gene coding for human erythropoietin (EPO) was obtained from human genomic DNA. The gene used does not include sequences from regions at *i* 5' of the first translated ATG and *ii* 3' of the stop codon of the EPO gene. The gene was cloned into an expression plasmid for eukaryotic cells that have as sole expression control elements the early promoter of the SV40 virus and its polyadenylation signal. Recombinant cells resulting from transfection with genetic constructs used provide an unexpectedly high level of protein expression of 50 mg of recombinant EPO per liter of culture medium per day.